

(19)



JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: **2000156978 A**

(43) Date of publication of application: **06.06.00**

(51) Int. Cl

H02M 3/28

H02M 3/335

(21) Application number: **10326588**

(71) Applicant: **FUJI ELECTRIC CO LTD**

(22) Date of filing: **17.11.98**

(72) Inventor: **IGARASHI MASATERU
FUJIHIRA TATSUHIKO**

(54) SOFT SWITCHING CIRCUIT

(57) Abstract:

PROBLEM TO BE SOLVED: To reduce generation loss, improve conversion efficiency, simplify constitution, and realize miniaturization or the like.

SOLUTION: In a soft switching circuit, in which a capacitor is connected in parallel with a switching element and made to perform resonance operation with a reactor, an element which is called a superjunction MOSFET which has small on-resistance and a large output capacitance is used as a switching element Q2. As a result, current conduction loss is reduced, and large output capacitance is used, so that a parallel capacitor which is connected in parallel with the element Q2 in the conventional circuit can be omitted.

COPYRIGHT: (C)2000,JPO

